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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,854	06/09/2006	Euijoon Yoon	20506/0203830-US0	3828
7278 DARBY & DA	7590 10/28/200 ARBY P.C	EXAMINER		
P.O. BOX 770)	MALDONADO, JULIO J		
Church Street New York, NY			ART UNIT	PAPER NUMBER
11011 110111,111	10000 0770		2823	
			MAIL DATE	DELIVERY MODE
			10/28/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

	Application No.	Applicant(s)		
10/563,854		YOON ET AL.		
	Examiner	Art Unit		
	JULIO J. MALDONADO	2823		

	JULIO J. MALDONADO	2823	
The MAILING DATE of this communication appe	ars on the cover sheet with the o	correspondence add	ress
THE REPLY FILED 08 October 2008 FAILS TO PLACE THIS A	PPLICATION IN CONDITION FOR	R ALLOWANCE.	
 N The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Apper for Continued Examination (RCE) in compliance with 37 C periods: 	replies: (1) an amendment, affidavi eal (with appeal fee) in compliance	t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request
a) The period for reply expires 3 months from the mailing date b) The period for reply expires on: (1) the mailing date of this A		in the final rejection, whi	chever is later. In
no event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (ater than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE	date of the final rejection	n.
MONTHS OF THE FINAL REJECTION. See MPEP 706.07(Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of ext under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the se set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patient term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	on which the petition under 37 CFR 1.1: ension and the corresponding amount of hortened statutory period for reply origithan three months after the mailing date	of the fee. The appropria nally set in the final Office	ate extension fee e action; or (2) as
2. The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed with the	sion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	s of the date of appeal. Since a
AMENDMENTS	and the time period section in or	Of 10 4 1.57 (a).	
The proposed amendment(s) filed after a final rejection, b (a) They raise new issues that would require further core	nsideration and/or search (see NOT		cause
 (b) They raise the issue of new matter (see NOTE below (c) They are not deemed to place the application in better appeal; and/or 		ducing or simplifying t	ne issues for
(d) ☐ They present additional claims without canceling a c NOTE: (See 37 CFR 1.116 and 41.33(a)).	corresponding number of finally reje	ected claims.	
 The amendments are not in compliance with 37 CFR 1.12 	1. See attached Notice of Non-Cor	mpliant Amendment (I	PTOL-324).
 Applicant's reply has overcome the following rejection(s): 	35 USC 103(a).		
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 		•	
7. For purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows: Claim(s) allowed:		I be entered and an e	planation of
Claim(s) objected to: <u>13 and 14</u> . Claim(s) rejected: <u>1-12 and 15-19</u> . Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE			
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 			
 The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary 	vercome <u>all</u> rejections under appea	al and/or appellant fail:	to provide a
10. The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after er	ntry is below or attach	ed.
The request for reconsideration has been considered but See Continuation Sheet.		condition for allowan	ce because:
 12. ☐ Note the attached Information Disclosure Statement(s). (13. ☐ Other: 	PTO/SB/08) Paper No(s)		
	(Coorgo Fourson)		

U.S. Patent and Trademark Office

Primary Examiner, Art Unit 2823

Continuation of 11. does NOT place the application in condition for allowance because: Applicant's arguments filed 10/08/2008 have been fully considered but they are not persuasive.

Applicants argue, "... Claims 1, 15 and 16 are rejected under 35 U.S.C. § 112, first paragraph for failing to comply with the written description requirement. Applicants respectfully traverse the rejection. Support for "collectively increasing" be emiconductor layers can be found in the Specification. For example, the Specification, page 6, lines 6-9, discloses "[ii]n a preferred embodiment, the nitride semiconductor epitaxial layer 110 is GaN that is formed by two steps of growing a low-temperature buffer layer and growing a high-temperature layer on the low-temperature layer and the specification, and the specification of the specification and the specification at page 1, lines 19-23...As to the growth of a third nitride semiconductor epitaxial layer 130, the Specification, at pages 6, line 22 bridging through page 7, line 1, discloses that "a nitride semiconductor epitaxial layer 130 is grown on the nitride semiconductor epitaxial layer 130.

In response to the applicants' argument, claims 1, 15 and 16 as amended in the reply filed on 03/28/20/G8 recises a step of releasing nitrogen from a second nitride layer (claims 16) and 16), or converting a nitride layer into a metal layer (claim 15) by collectively increasing a temperature of a first, second and third nitride layers. The support argued by the applicants is for a deposition temperature, which is at a different stage of the manufacturing process, not during the decomposition of said second nitride layer. Evidence, the disclosed specification teaches wherein the second and the third semiconductor layers are formed at a temperature of 300cC bs 800cC (page 6, lines 12 - page 7, line 11), and, after forming said intitide layers, a temperature is raised to 900cC or more to decompose said second nitride layer (page 8, lines 12 - 18). There is no support to any specific heating that would render the claim language in claims 1, 15 and 16 inherent. Alts the decomposing of the second nitride layer, there is no support to the specification for the claim language in claims 1, 15 and 16. Therefore, the rejection of claims 1, 15 and 16 is not withdrawn in view of the applicants' around the second intride layer.